



National Weather Service

Storm Data and Unusual Weather Phenomena



November 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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MINNESOTA, Northeast

MNZ010-018>020-025>026-034>037 Koochiching - Northern Itasca - Central St. Louis - Southern Lake - Northern Cass - Southern Itasca - Crow Wing - Northern Aitkin - Southern Aitkin - Southern St. Louis / Carlton

09	1600CST	0	0	Winter Storm
11	0400CST			

A record-breaking low pressure system moved from northwestern Iowa, passed close to Duluth/Superior, then proceeded up the Minnesota shore of Lake Superior. Besides some heavy snow (8.2 inches at Duluth, 7 at Hackensack, and 6 in Deer River), the storm produced an all-time record low pressure at Duluth. At 1435 CST on the 10th, the pressure at Duluth International Airport fell to 28.475 inches (964.3 mb), breaking the old record of 28.55 inches (966.8 mb) set on Jan 11, 1975. Precipitation records for Nov 10th were also set in Duluth, with 2.33 inches of water equivalent and 7.2 inches of snow recorded. Regular weather records began in Duluth in October 1870. Snow totals would have been higher and more widespread, but the snow changed over to rain during much of the day on the 10th. The wet, heavy snow brought down many trees and power lines in Itasca and northern Cass counties where less of the snow changed over to rain. The deep low also created winds as high as 77 mph (67 kts) at Lake Superior shoreline observing sites, producing waves as high as 20 feet on the lake. Coincidentally, this storm occurred on the anniversary of the storm which sank the ore carrier Edmond Fitzgerald on Nov 10, 1975.

MNZ010>012-019>021 Koochiching - Northern St. Louis - Northern Cook / Northern Lake - Central St. Louis - Southern Lake - Southern Cook

18	0508CST	0	0	Heavy Snow
19	0955CST			

A strong low pressure system, moving across northwestern Wisconsin, produced heavy snow, occasionally mixed with rain or sleet, over parts of northcentral and northeastern Minnesota. Some of the heavier amounts were 13 inches at International Falls, 10 near Tower, and 7 at both Silver Bay and Marble Lake.